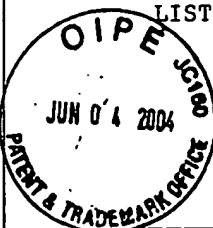


FORM PTO-1449	Atty. Docket No.: C382.12-0143	Serial No.: 10/748,792
 <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p>	Applicant:	
	Jim K. Klang	
	Filing Date	Group Art:
	December 30, 2003	1745

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RG</i>	AA	5,592,094	1/7/97	Ichikawa	324	427
<i>RG</i>	AB	6,275,008	8/14/01	Arai et al.	320	132
<i>RG</i>	AC	5,872,453	2/15/99	Shimoyama et al.	324	431
<i>RG</i>	AD	5,321,627	6/14/94	Reher	364	483
<i>RG</i>	AE	4,949,046	8/14/90	Seyfang	324	427
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS


	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AM					
	AN					
	AO					
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AP	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/41561.				
	AQ					
	AR					
	AS					

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5-10-05

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FORM PTO-1449	Atty. Docket No.: C382.12-0143	Serial No.: 10/748,792
 <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p>	Applicant:	
	Jim K. Klang	
	Filing Date	Group Art:
	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AG	AA	2,514,745	7/11/50	Dalzell	171	95
	AB	3,593,099	7/13/71	Scholl	320	13
	AC	3,607,673	9/21/71	Seyl	204	1
	AD	3,676,770	7/11/72	Sharaf et al.	324	29.5
	AE	3,729,989	5/1/73	Little	73	133
	AF	3,753,094	8/14/73	Furuishi et al.	324	29.5
	AG	3,808,522	4/30/74	Sharaf	324	29.5
	AH	3,811,089	5/14/74	Strezelewicz	324	170
	AI	3,873,911	3/25/75	Champlin	324	29.5
	AJ	3,886,443	5/27/75	Miyakawa et al.	324	29.5
	AK	3,889,248	6/10/75	Ritter	340	249
AG	AL	3,906,329	9/16/75	Bader	320	44

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AG	AM	59-17892	1/30/84	Japan			Abstract Only
AG	AN	59-17893	1/30/84	Japan			Abstract Only
AG	AO	59-17894	1/30/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AG	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", Batteries International, April 1997, pgs. 59 and 62-63.					
AG	AQ	"Battery Impedance", by E. Willihnganz et al., Electrical Engineering, September 1959, pgs. 922-925.					
AG	AR	"Determining The End of Battery Life", by S. DeBardelaben, IEEE, 1986, pgs. 365-368.					
AG	AS	"A Look at the Impedance of a Cell", by S. DeBardelaben, IEEE, 1988, pgs. 394-397.					

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>AB</i>	AT 3,909,708	9/30/75	Champlin	324	29.5	
	AU 3,936,744	2/3/76	Perlmutter	324	158	
	AV 3,946,299	3/23/76	Christianson et al.	320	43	
	AW 3,947,757	3/30/76	Grube et al.	324	28	
	AX 3,969,667	7/13/76	McWilliams	324	29.5	
	AY 3,979,664	9/7/76	Harris	324	17	
	AZ 3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5	
	BA 3,984,768	10/5/76	Staples	324	62	
	BB 4,008,619	2/22/77	Alcaide et al.	73	398	
	BC 4,053,824	10/11/77	Dupuis et al.	324	29.5	
	BD 4,070,624	1/24/78	Taylor	327	158	
<i>AB</i>	BE 4,086,531	4/25/78	Bernier	324	158	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>AB</i>	BF 60225078	11/9/85	Japan			Abstract Only
<i>AB</i>	BG 04372536	12/25/92	Japan			Abstract Only
<i>AB</i>	BH 04131779	5/6/92	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AB</i>	BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
<i>AB</i>	BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
<i>AB</i>	BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11.

EXAMINER:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RC</i>	BL	4,112,351	9/5/78	Back et al.	324	16
	BM	4,114,083	9/12/78	Benham et al.	320	39
	BN	4,126,874	11/21/78	Suzuki et al.	354	60
	BO	4,178,546	12/11/79	Hulls et al.	324	158
	BP	4,193,025	3/11/80	Frailing et al.	324	427
	BQ	4,207,611	6/10/80	Gordon	364	580
	BR	4,315,204	2/9/82	Sievers et al.	322	28
	BS	4,316,185	2/16/82	Watrous et al.	340	636
	BT	4,322,685	3/30/82	Frailing et al.	324	429
	BU	4,363,407	12/14/82	Barkler et al.	209	3.3
	BV	4,369,407	1/18/83	Korbell	324	416
<i>RC</i>	BW	4,412,169	10/25/83	Dell'Orto	320	64

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>RC</i>	BX 03282276	12/12/91	Japan			Abstract Only
<i>RC</i>	BY 03274479	12/5/91	Japan			Abstract Only
<i>RC</i>	BZ 5216550	8/27/93	Japan			Abstract Only
<i>RC</i>	CA 59017894	1/30/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>RC</i>	CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., AT&T Bell Laboratories, 1987 IEEE, Ch. 2477, pp. 128,131.
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EXAMINER:

DATE CONSIDERED: 5/10-03

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
OK	CC	4,390,828	6/28/83	Converse et al.	320	32
	CD	4,392,101	7/5/83	Saar et al.	320	20
	CE	4,396,880	8/2/83	Windebank	320	21
	CF	4,408,157	10/4/83	Beaubien	324	62
	CG	4,423,378	12/27/83	Marino et al.	324	427
	CH	4,423,379	12/27/83	Jacobs et al.	324	429
	CI	4,424,491	1/3/84	Bobbett et al.	324	433
	CJ	4,459,548	7/10/84	Lentz et al.	324	158
	CK	4,514,694	4/30/85	Finger	324	429
	CL	4,520,353	5/28/85	McAuliffe	340	636
	CM	4,667,279	5/19/87	Maier	363	46
	CN	4,678,998	7/7/87	Muramatsu	324	427
	CO	4,679,000	7/7/87	Clark	324	428
RL	CP	4,697,134	9/29/87	Burkum et al.	320	48

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
RL	CQ	EP 0 772 056 A1 ✓	5/7/97	EPO		X
RL	CR	EP 0 637 754 A1 ✓	2/8/95	EPO		X
RL	CS	2 088 159 A ✓	6/3/82	Great Britain		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RL	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.
RL	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
RB	CV	4,707,795	11/17/87	Alber et al.	364	550
	CW	4,709,202	11/24/87	Koenck et al.	320	43
	CX	4,710,861	12/1/87	Kanner	363	46
	CY	4,719,428	1/12/88	Liebermann	324	436
	CZ	4,743,855	5/10/88	Randin et al.	324	430
	DA	4,816,768	3/28/89	Champlin	324	428
	DB	4,820,966	4/11/89	Fridman	320	32
	DC	4,825,170	4/25/89	Champlin	324	436
	DD	4,849,700	7/18/89	Morioka et al.	324	427
	DE	4,881,038	11/14/89	Champlin	324	426
	DF	4,912,416	3/27/90	Champlin	324	430
	DG	4,929,931	5/29/90	McCuen	340	636
	DH	4,931,738	6/5/90	MacIntyre et al.	324	435
	DI	4,947,124	8/7/90	Hauser	324	430
	DJ	4,956,597	9/11/90	Heavey et al.	320	14
RB	DK	4,968,941	11/6/90	Rogers	324	428

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
RB	DL	WO 93/22666 ✓	11/11/93	WIPO			X
RB	DM	WO 98/58270 ✓	12/23/98	WIPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RB	DN	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
RB	DO	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
RG	DP	5,004,979	4/2/91	Marino et al.	324	160
	DQ	5,032,825	7/16/91	Xuznicki	340	636
	DR	5,047,722	9/10/91	Wurst et al.	324	430
	DS	5,087,881	2/11/92	Peacock	324	378
	DT	5,126,675	6/30/92	Yang	324	435
	DU	5,140,269	8/18/92	Champlin	324	433
	DV	5,144,248	9/1/92	Alexandres et al.	324	428
	DW	5,170,124	12/8/92	Blair et al.	324	434
	DX	5,204,611	4/20/93	Nor et al.	320	21
	DY	5,214,370	5/25/93	Harm et al.	320	35
	DZ	5,214,385	5/25/93	Gabriel et al.	324	434
	EA	5,241,275	8/31/93	Fang	324	430
	EB	5,254,952	10/19/93	Salley et al.	324	429
	EC	5,281,919	1/25/94	Palanisamy	324	427
	ED	5,281,920	1/25/94	Wurst	324	430
	EE	5,295,078	3/15/94	Stich et al.	364	483
	EF	5,298,797	3/29/94	Redl	307	246
	EG	5,300,874	4/5/94	Shimamoto et al.	320	15
RG	EH	5,302,902	4/12/94	Groehl	324	434

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
EI						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EJ	
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>PL</i>	EK	5,331,268	7/19/94	Patino et al.	320	20
	EL	5,336,993	8/9/94	Thomas et al.	324	158.1
	EM	5,352,968	10/4/94	Reni et al.	320	35
	EN	5,343,380	8/30/94	Champlin	363	46
	EO	5,365,160	11/15/94	Leppo et al.	320	22
	EP	5,365,453	11/15/94	Startup et al.	364	481
	EQ	5,381,096	1/10/95	Hirzel	324	427
	ER	5,426,371	6/20/95	Salley et al.	324	429
	ES	5,432,426	7/11/95	Yoshida	320	20
	ET	5,434,495	7/18/95	Toko	320	44
	EU	5,442,274	8/15/95	Tamai	320	23
	EV	5,457,377	10/10/95	Jonsson	320	5
	EW	5,449,996	9/12/95	Matsumoto et al.	320	20
	EX	5,449,997	9/12/95	Gilmore et al.	320	39
	EY	5,485,090	1/16/96	Stephens	324	433
	EZ	5,519,383	5/21/96	De La Rosa	340	636
	FA	5,528,148	6/18/96	Rogers	324	426
	FB	5,550,485	8/27/96	Falk	324	772
<i>NG</i>	FC	5,561,380	10/1/96	Sway-Tin et al.	324	509

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
FD						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FE	
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EXAMINER:

Robert [Signature]

DATE CONSIDERED:

5-10-05

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FORM PTO-1449	Atty. Docket No.: C382.12-0143	Serial No.: 10/748,792
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AL	FF	5,562,501	10/8/96	Kinoshita et al.	439	852
	FG	5,572,136	11/5/96	Champlin	324	426
	FH	5,574,355	11/12/96	McShane et al.	320	39
	FI	5,585,728	12/17/96	Champlin	324	427
	FJ	5,592,093	1/7/97	Klingbiel	324	426
	FK	5,596,260	1/21/97	Moravec et al.	320	30
	FL	5,598,098	1/28/97	Champlin	324	430
	FM	5,602,462	2/11/97	Stich et al.	323	258
	FN	5,606,242	2/25/97	Hull et al.	320	48
	FO	5,621,298	4/15/97	Harvey	320	5
	FP	5,642,031	6/24/97	Brotto	320	21
	FQ	5,650,937	7/22/97	Bounaga	364	483
	FR	5,652,501	7/29/97	McClure et al.	320	17
	FS	5,675,234	10/7/97	Greene	320	15
	FT	5,677,077	10/14/97	Faulk	429	90
	FU	5,699,050	12/16/97	Kanazawa	340	636
	FV	5,701,089	12/23/97	Perkins	327	772
	FW	5,717,336	2/10/98	Basell et al.	324	430
AL	FX	5,757,192	5/26/98	McShane et al.	324	427

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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EXAMINER: Robert J. Y. T. DATE CONSIDERED: 5-10-05

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RG</i>	GA	5,773,978	6/30/98	Becker	324	430
	GB	5,789,899	8/4/98	van Phuoc et al.	320	30
	GC	5,793,359	8/11/98	Ushikubo	345	169
	GD	5,821,756	10/13/98	McShane et al.	324	430
	GE	5,831,435	11/3/98	Troy	324	426
	GF	5,872,443	2/16/99	Williamson	320	21
	GG	5,914,605	6/22/99	Bertness	324	430
	GH	5,945,829	8/31/99	Bertness	324	430
	GI	3,356,936	12/5/67	Smith	324	29.5
	GJ	5,488,300	1/30/96	Jamieson	324	432
	GK	6,002,238	12/14/99	Champlin	320	134
	GL	6,037,777	3/14/00	Champlin	324	430
	GM	6,051,976	4/18/00	Bertness	324	426
	GN	6,081,098	6/27/00	Bertness et al.	320	134
	GO	6,091,245	7/18/00	Bertness	324	426
	GP	6,104,167	8/15/00	Bertness et al.	320	132
<i>RG</i>	GQ	6,137,269	10/24/00	Champlin	320	150

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>RG</i>	GR DE 29 26 716 B1 ✓	1/15/81	Germany			X
<i>RG</i>	GS 0 022 450 A1 ✓	1/21/81	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>RG</i>	GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
<i>RG</i>	GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

EXAMINER: *RG* DATE CONSIDERED: *5-10-05*

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>no</i>	GV	3,562,634	2/9/71	Latner	31	04
	GW	4,379,990	4/12/83	Sievers et al.	322	99
	GX	5,144,218	9/1/92	Bosscha	320	44
	GY	5,315,287	5/24/94	Sol	340	455
	GZ	5,469,043	11/21/95	Cherng et al.	320	31
	HA	5,546,317	8/13/96	Andrieu	364	481
	HB	5,583,416	12/10/96	Klang	320	22
	HC	5,589,757	12/31/96	Klang	320	22
	HD	5,656,920	8/12/97	Cherng et al.	320	31
	HE	5,710,503	1/20/98	Sideris et al.	320	6
	HF	5,760,587	6/2/98	Harvey	324	434
	HG	5,808,469	9/15/98	Kopera	324	43.4
	HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434
	HI	6,009,369	12/28/99	Boisvert et al.	701	99
	HJ	6,031,354	2/29/00	Wiley et al.	320	116
	HK	6,037,751	3/14/00	Klang	320	160
	HL	6,072,299	6/6/00	Kurie et al.	320	112
	HM	6,094,033	7/25/00	Ding et al.	320	132
	HN	6,163,156	12/19/00	Bertness	324	426
	HO	6,172,483	1/9/01	Champlin	320	134
<i>no</i>	HP	6,172,505	1/9/01	Bertness	324	430

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>no</i>	HQ	2 749 397	12/5/97	France			X
<i>no</i>	HR	59215674	12/5/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HS	
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	Atty. Docket No.: C382.12-0143	Serial No.: 10/748,792
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
	Jim K. Klang	
	Filing Date	Group Art:
	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>Ne</i>	HT	3,989,544	11/2/76	Santo	429	65
	HU	4,745,349	5/17/88	Palanisamy et al.	320	22
	HV	4,876,495	10/24/89	Palanisamy et al.	320	18
	HW	4,937,528	6/26/90	Palanisamy	324	430
	HX	4,968,942	11/6/90	Palanisamy	324	430
	HY	5,179,335	1/12/93	Nor	320	21
	HZ	5,266,880	11/30/93	Newland	320	14
	IA	5,451,881	9/19/95	Finger	324	433
	IB	5,705,929	1/6/98	Caravello et al.	324	430
	IC	5,717,937	2/10/98	Fritz	395	750.01
	ID	5,862,515	1/19/99	Kobayashi et al.	702	63
	IE	5,895,440	4/20/99	Proctor et al.	702	63
	IF	5,929,609	7/27/99	Joy et al.	322	25
	IG	6,072,300	6/6/00	Tsuji	320	116
	IH	4,659,977	4/21/87	Kissel et al.	320	64
	II	4,913,116	4/3/90	Katogi et al.	123	425
	IJ	5,160,881	11/3/92	Schramm et al.	322	7
	IK	5,338,515	8/16/94	Dalla Betta et al.	422	95
	IL	5,537,967	7/23/96	Tashiro et al.	123	792.1
	IM	5,548,273	8/20/96	Nicol et al.	340	439
<i>Ne</i>	IN	5,747,909	5/5/98	Syverson et al.	310	156

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>Ne</i>	IO	62-180284	8/7/87	Japan			Abstract
<i>Ne</i>	IP	7-128414	5/19/95	Japan			Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IQ	
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RG</i>	IR	6,114,834	9/5/00	Parise	320	109
	IS	6,150,793	11/21/00	Lesesky et al.	320	104
	IT	3,876,931	4/8/75	Godshalk	324	29.5
	IU	5,347,163	9/13/94	Yoshimura	307	66
	IV	5,939,861	8/17/99	Joko et al.		
	IW	5,339,018	8/16/94	Brokaw	320	35
	IX	5,412,323	5/2/95	Kato et al.	324	429
	IY	5,426,416	6/20/95	Jefferies et al.	340	664
	IZ	5,825,174	10/20/98	Parker	324	106
	JA	5,939,855	8/17/99	Proctor et al.	320	104
	JB	5,254,952	10/19/93	Salley et al.	324	429
	JC	4,217,645	8/12/80	Barry et al.	364	483
	JD	4,633,418	12/30/86	Bishop	364	554
	JE	5,321,626	6/14/94	Palladino	364	483
	JF	5,969,625	10/19/99	Russo	340	636
	JG	6,222,369	4/24/01	Champlin	324	430
	JH	6,225,808	5/1/01	Varghese et al.	324	426
	JI	6,249,124	6/19/01	Bertness	324	426
	JJ	6,259,254	7/10/01	Klang	324	427
	JK	6,262,563	7/17/01	Champlin	320	134
	JL	6,294,896	9/25/01	Champlin	320	134
<i>M</i>	JM	6,294,897	9/25/01	Champlin	320	153

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>RG</i>	JN	4-8636	1/13/92	Japan			X (Abstract)
<i>RG</i>	JO	63027776	2/5/88	Japan			Abstract Only

EXAMINER: *Karl M*DATE CONSIDERED: *5-10-05*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RC</i>	JP 4,379,989	4/12/83	Kurz et al.	320	26	
	JQ 4,680,528	7/14/87	Mikami et al.	320	32	
	JR 5,633,985	5/27/97	Severson et al.	395	2.76	
	JS 5,739,667	4/14/98	Matsuda et al.	320	5	
	JT 4,024,953	5/1977	Nailor, III	206	344	
	JU 6,250,973	6/2001	Lowery et al.	439	763	
	JV 6,254,438	7/2001	Gaunt	439	755	
	JW 6,304,087	10/16/01	Bertness	324	426	
	JX 6,310,481	10/30/01	Bertess	324	430	
	JY 6,313,607	11/6/01	Champlin	320	132	
	JZ 6,313,608	11/6/01	Varghese et al.	32	132	
	KA 6,316,914	11/13/01	Bertness	320	134	
	KB 5,435,185	7/25/95	Eagan	73	587	
	KC 5,445,026	8/29/95	Eagan	73	591	
	KD 4,667,143	5/19/87	Cooper et al.	320	22	
	KE 4,847,547	7/11/89	Eng, Jr. et al.	320	35	
	KF 5,574,355	11/12/96	McShane et al.	320	39	
<i>RC</i>	KG 4,663,580	5/5/87	Wortman	320	35	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>RC</i>	KH WO 99/23738	5/14/99	WIPO			X
<i>RC</i>	KI WO 94/05069	3/3/94	PCT			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>RC</i>	KJ	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.
<i>RC</i>	KK	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.
<i>RC</i>	KL	National Semiconductor Corporation, "LMF90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B30M115, December 1994.

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	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>NC</i>	KM	6,323,650	11/27/01	Bertness et al.	324	426
	KN	6,329,793	12/11/01	Bertness et al.	320	132
	KO	6,331,762	12/18/01	Bertness	320	134
	KP	6,332,113	12/18/01	Bertness	702	63
	KQ	4,297,639	10/27/81	Branham	324	429
	KR	5,653,659	8/5/97	Kunibe et al.	477	111
	KS	6,161,640	12/19/00	Yamaguchi	180	65.8
	KT	4,351,405	6/28/82	Fields et al.	180	65
	KU	6,359,441	3/16/02	Bertness	324	426
	KV	4,047,091	9/1997	Hutchines et al.	363	59
	KW	5,653,659	8/1997	Kunibe et al.	477	111
	KX	5,637,978	6/1997	Kellett et al.	320	2
	KY	5,095,223	3/1992	Thomas	307	110
	KZ	5,194,799	3/1993	Tomantschger	320	2
<i>NC</i>	LA	5,754,417	5/1998	Nicollini	363	60
	LB					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	LC					
	LD					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>NC</i>	LE	"Alligator Clips with Wire Penetrators" J.S. Popper, Inc. product information, downloaded from http://www.jspopper.com/ , undated
<i>NC</i>	LF	"#12: LM78S40 Simple Switcher DC to DC Converter", ITM e-Catalog, downloaded from http://www.pcbcafe.com , undated
<i>NC</i>	LG	"Simple DC-DC Converts Allows Use of Single Battery", <u>Electronix Express</u> , downloaded from http://www.elexp.com/t_dc-dc.htm , undated

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	Jim K. Klang	
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	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>De</i>	LH	5,818,234	10/1998	McKinnon	324	433
	LI	6,140,797	10/2000	Dunn	320	105
	LJ	6,181,545	1/2001	Amatucci et al.	361	502
	LK	6,346,795	2/2002	Haraguchi et al.	320	136
	LM	6,347,958	2/2002	Tsai	439	488
	LN	6,351,102	2/26/02	Troy	320	139
	LO	6,359,441	3/19/02	Bertness	324	426
	LP	6,363,303	3/26/02	Bertness	701	29
	LQ	5,037,778	8/6/91	Stark et al.	437	216
	LR	6,144,185	11/7/00	Dougherty et al.	320	132
	LS	5,711,648	1/27/98	Hammerslag	414	786
	LT	5,927,938	7/27/99	Hammerslag	414	809
	LU	5,951,229	9/14/99	Hammerslag	414	398
	LV	5,961,561	10/5/99	Wakefield, II	701	29
	LW	5,961,604	10/5/99	Anderson et al.	709	229
	LX	6,236,332	5/22/01	Conkright et al.	340	825.06
	LY	6,351,102	2/26/02	Troy	320	139
	LZ	5,821,757	10/13/98	Alvarez et al.	324	434
<i>De</i>	MA	6,167,349	12/26/00	Alvarez	702	63

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
MB						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>De</i>	MC	"DC-DC Converter Basics", Power Designers, downloaded from http://www.powederdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm , undated
	MD	

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	Filing Date	Group Art:
	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>RV</i>	ME	4,665,370	5/1987	Holland	324	429
	MF	4,361,809	11/1982	Bil et al.	324	426
	MG	6,392,414	5/21/02	Bertness	324	429
	MH	6,417,669	7/9/02	Champlin	324	426
	MI	6,424,158	7/23/02	Klang	324	433
	MJ	6,441,585	8/17/02	Bertness	320	132
	MK	6,445,158	9/3/02	Bertness et al.	320	104
	ML	6,384,608	5/7/02	Namaky	324	425
	MM	6,388,448	5/14/02	Cervas	324	426
	MN	6,307,349	10/23/01	Koenck et al.	320	112
	MO	6,411,098	6/25/02	Laletin	324	436
	MP	6,456,045	9/24/02	Troy et al.	320	139
	MQ	6,466,025	10/15/02	Klang	324	429
	MR	6,466,026	10/15/02	Champlin	324	430
	MS	4,564,798	1/14/86	Young	320	6
	MT	5,563,496	10/8/96	McClure	320	48
<i>RV</i>	MU	5,796,239	8/18/98	van Phuoc et al.	320	107

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>RV</i>	MV RU 2089015-C1 -	8/27/97	Russia			Abstract Only
<i>RV</i>	MW 09061505 ✓	3/7/97	Japan			Abstract Only
<i>RV</i>	MX 10056744 ✓	2/24/98	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>RV</i>	MY	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
<i>RV</i>	MZ	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07546.

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	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
ALG	NA	4,888,716	12/19/89	Ueno	364	550
	NB	6,495,990 B2	12/17/02	Champlin	320	132
	NC	4,385,269	5/24/83	Aspinwall et al.	320	14
	ND	4,686,442	8/11/87	Radomski	320	17
	NE	6,061,638	5/9/00	Joyce	702	63
	NF	6,359,442	3/19/02	Henningson et al.	324	426
	NG	5,541,489	7/30/96	Dunstan	320	2
	NH	6,424,157	7/23/02	Gollomp et al.	324	430
	NI	6,534,993	3/18/03	Bertness	324	433
	NJ	6,544,078	4/8/03	Palmisano et al.	439	762
	NK	6,556,019	4/29/03	Bertness	324	426
	NL	6,566,883	5/20/03	Vonderhaar et al.	324	426
	NM	6,586,941	7/1/03	Bertness et al.	324	426
	NN	6,597,150	7/22/03	Bertness et al.	320	104
	NO	2002/0171428	11/21/02	Bertness	324	426
ALG	NP	6,263,268	7/17/01	Nathanson	701	29

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
ALG	NQ	WO 00/67359	11/9/00	WIPO		X
ALG	NR	WO 01/51947	7/19/01	WIPO		X
ALG	NS	WO 98/04910	2/5/98	WIPO		X
ALG	NT	WO 00/62049	10/19/00	WIPO		X
	NU					
	NV					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ALG	NW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577.
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	December 30, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>Ro</i>	OA	5,410,754	4/1995	Klotzbach et al.	370	85.13
	OB	5,654,623	8/1997	Shiga et al.	320	48
	OC	6,055,468	4/2000	Kaman et al.	701	29
	OD	2003/0025481	2/2003	Bertness	320	155
	OE	5,313,152	5/1994	Wozniak et al.	320	118
	OF	2003/0184306	10/2003	Bertness et al.	324	426
	OG	2004/0000891	1/2004	Raichle et al.	320	107
	OH	3,750,011	7/1973	Kreps	324	29.5
	OI	5,159,272	10/1992	Rao et al.	324	429
	OJ	5,325,041	6/1994	Briggs	320	44
	OK	6,526,361	2/2003	Jones et al.	702	63
	OL	6,667,624	12/2003	Raichle et al.	324	522
<i>Ro</i>	OM	2002/0010558	1/24/02	Bertness et al.	702	63
	ON					
	OO					
	OP					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>Ro</i>	OQ	JP 11103503 A	4/1999	Japan		X (Abstract)
<i>Ro</i>	OR	WO 01/59443	2/9/01	WIPO		X
	OS					
	OT					
	OU					
	OV					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Ro</i>	OW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07837.
EXAMINER: <i>Ro</i>		DATE CONSIDERED: 5-10-05

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